

The background of the slide is a photograph of a sunset or sunrise over a body of water. The sky is a deep blue with wispy white clouds. A bright rainbow is visible on the left side of the image, arching over the horizon. The water in the foreground is dark blue with gentle ripples.

Climate Change and The Bay Area

Joint Policy Committee
November 17, 2006

Regional Policy

- BAAQMD: June 1, 2005
- ABAG: September 21, 2006
- MTC: September 27, 2006



BAAQMD

Climate Protection Leadership Program

- Six Initiatives
 - Climate Protection Summit
 - GHG Technology RFP
 - Bay Area GHG Emission Inventory
 - Promotion of Energy Efficiency
 - In-house GHG Emission Reductions
 - Green Schools
- Integration with District activities

Synergy with Existing Programs

- Smart Growth
- RTP Transit Emphasis
- ABAG Green Business & Energy Watch
- Alliance for Sustainable Communities

MTC Referral to the JPC

- To recommend actions that MTC, ABAG, and BAAQMD should take to incorporate climate protection in their agency plans and programs.
- To report back to the boards of the three agencies on this **within six months**.

Local Consequences: By the End of the Century

Emission Scenario	Lower (550 ppm)	Medium-High (830 ppm)	Higher (970 ppm)
Temperature rise	3.0-5.4°	5.5-7.9°	8.0-10.4°
Snow pack loss	30-60%	70-80%	90%
Sea level rise	6-14"	14-22"	22-30"
Heatwave days	1-2X	2-2.5X	3-4X
Increase in electricity demand	3-6%	11%	20%
Increase in large fire risk	10-35%	55%	NA

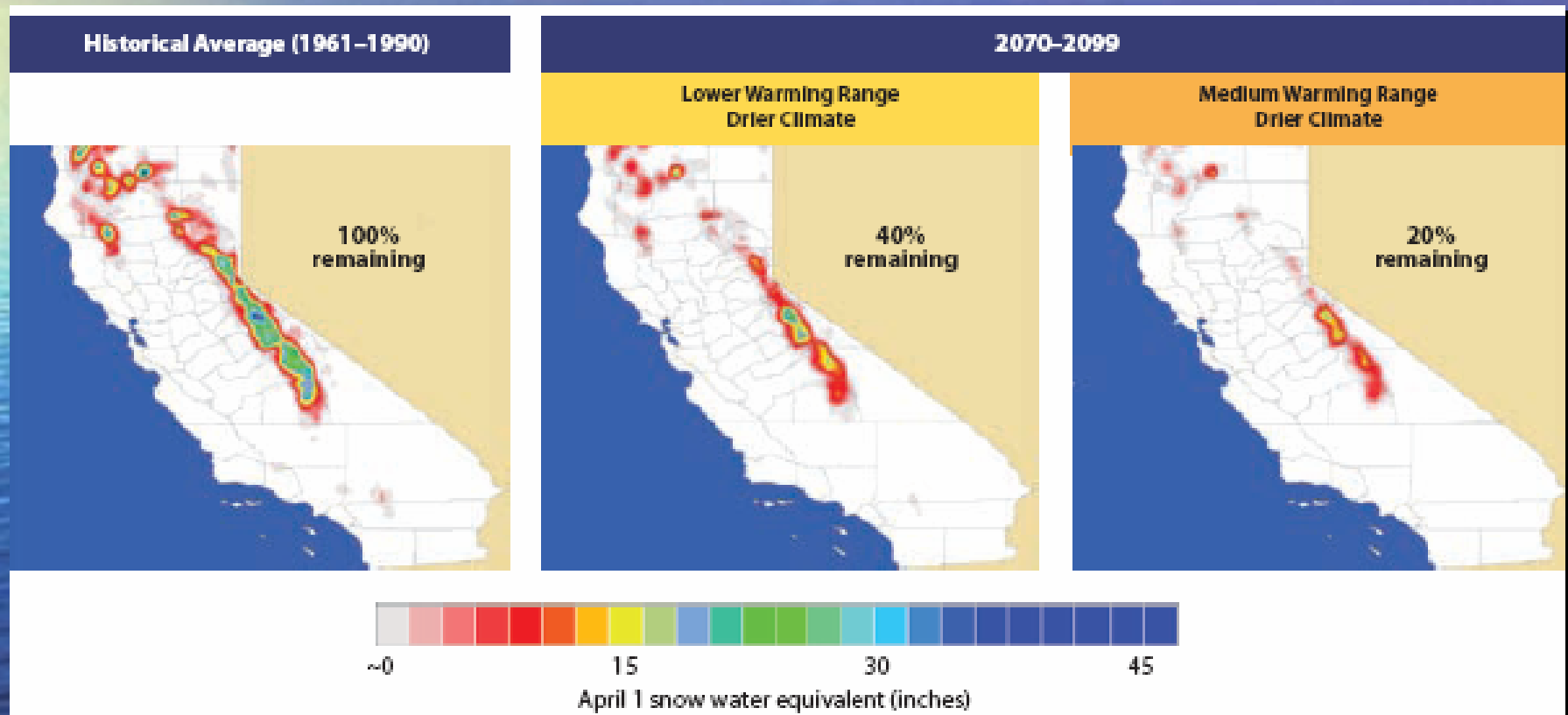
Source: California Climate Action Team

Local Consequences: By the End of the Century...or Earlier

Emission Scenario	Lower (550 ppm)	Medium-High (830 ppm)	Higher (970 ppm)
Temperature rise	3.0-5.4°	5.5-7.9°	8.0-10.4°
Snow pack loss	30-60%	70-80%	90%
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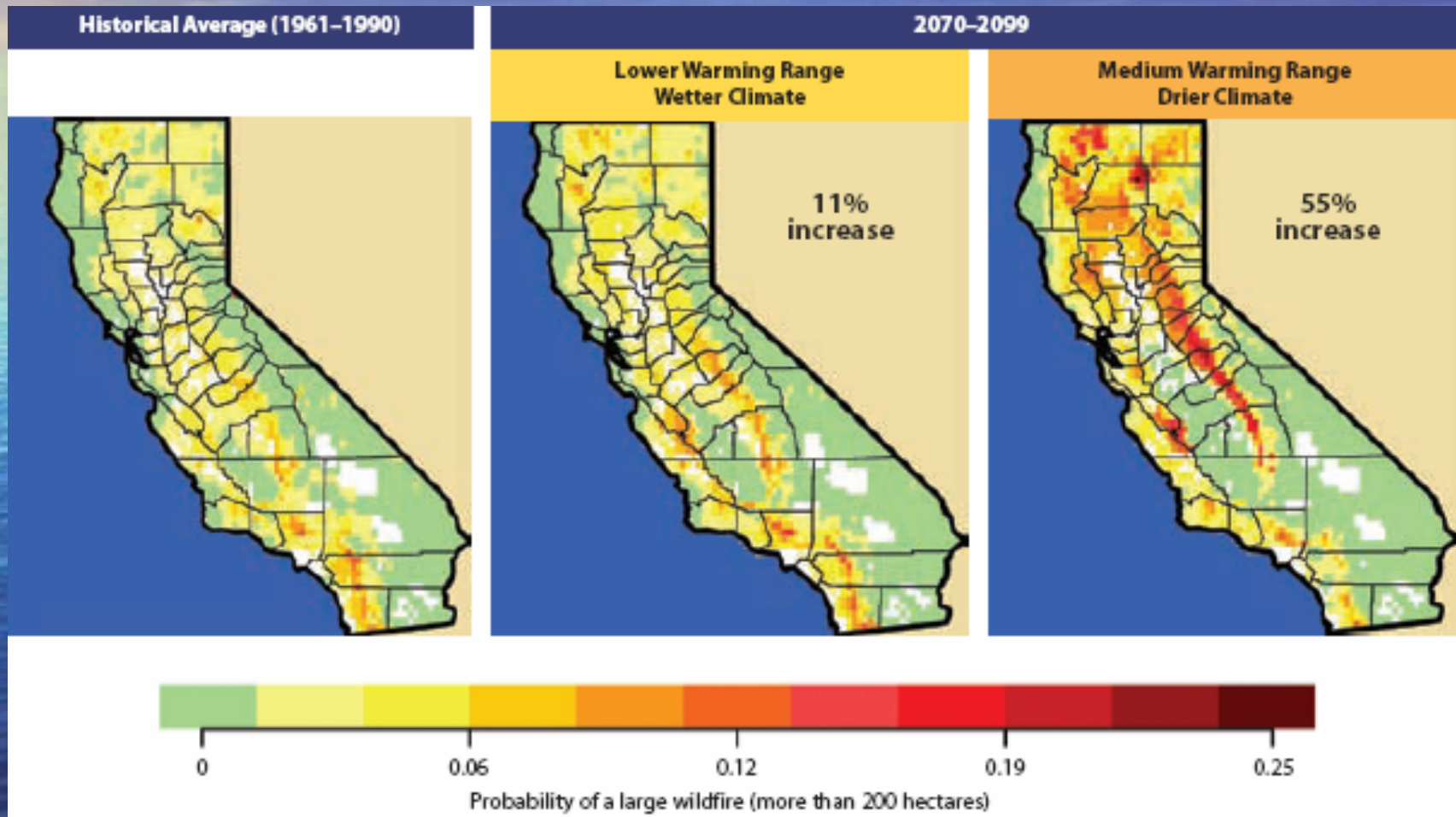
Source: California Climate Action Team

Local Consequences: Decreasing Snow Pack



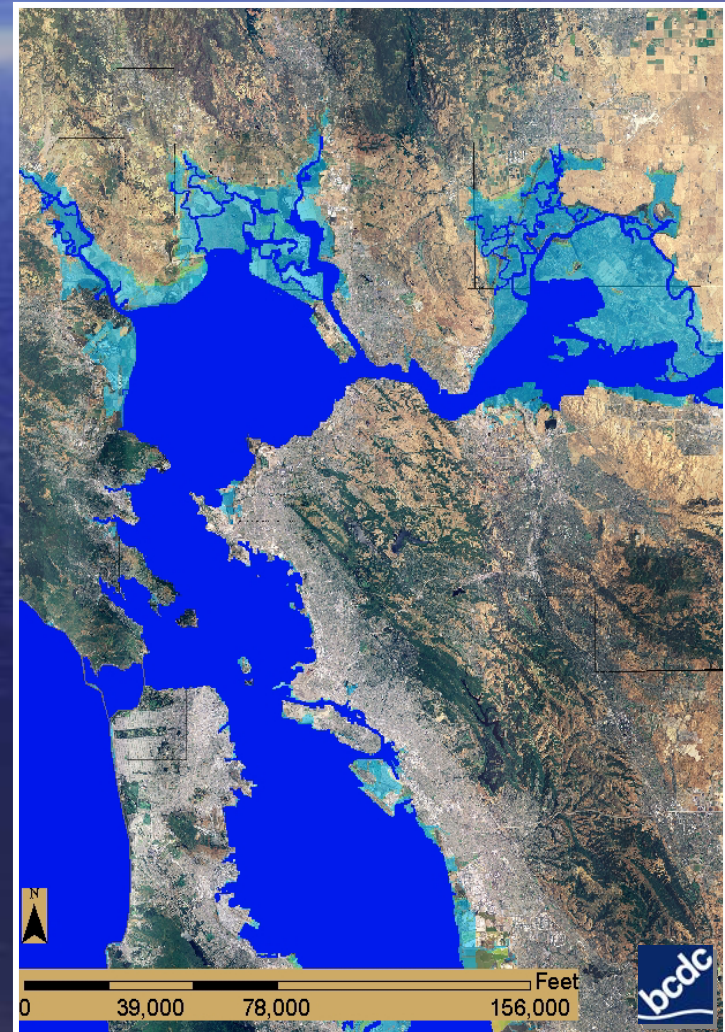
Source: California Climate Change Center

Local Consequences: Wildfire Frequency



Source: California Climate Change Center

Local Consequences: Sea-level Rise and the Bay



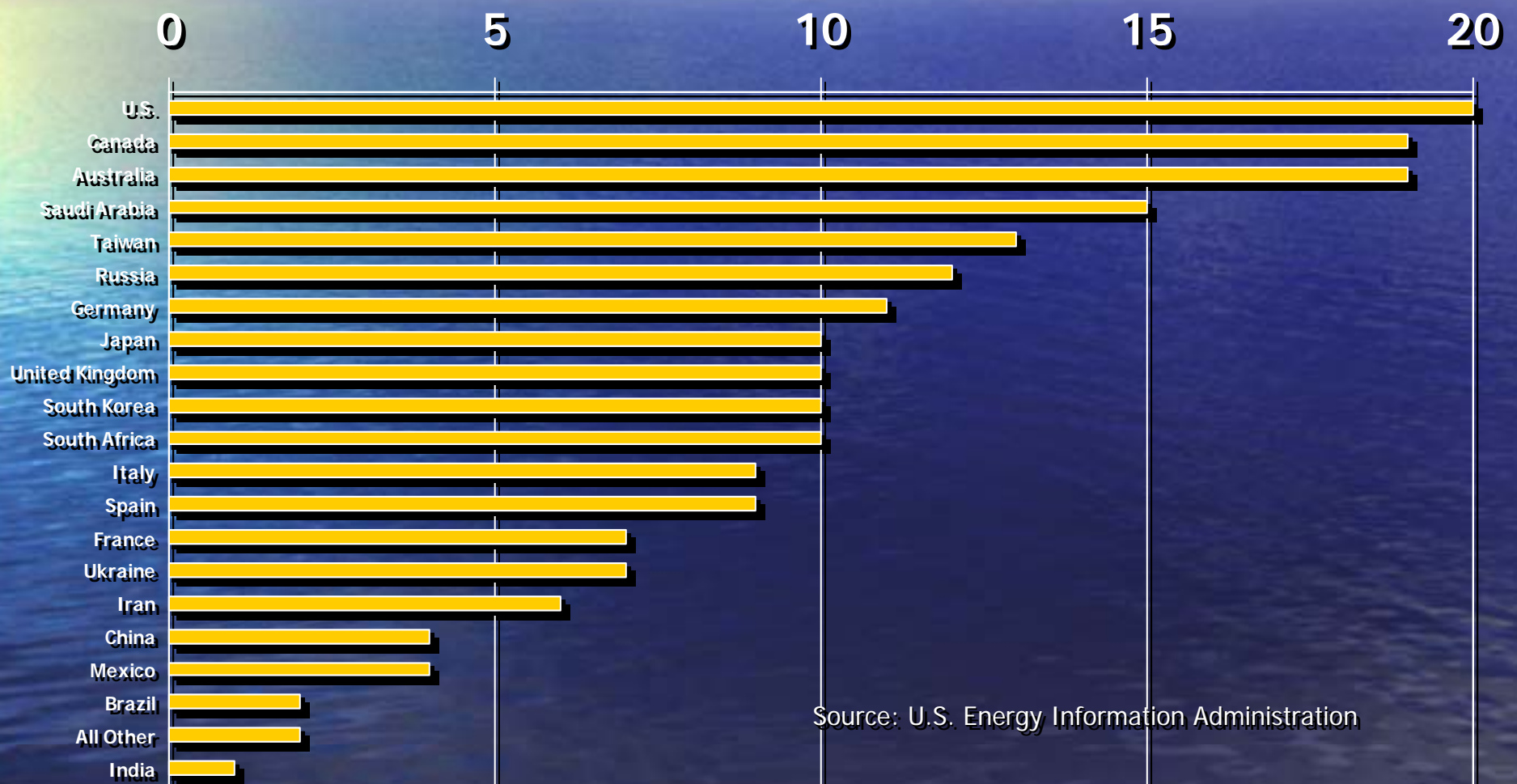
Source: BCDL

Local Consequences: Sea-level Rise and the Bay



Contributors: CO₂ Emissions per Capita

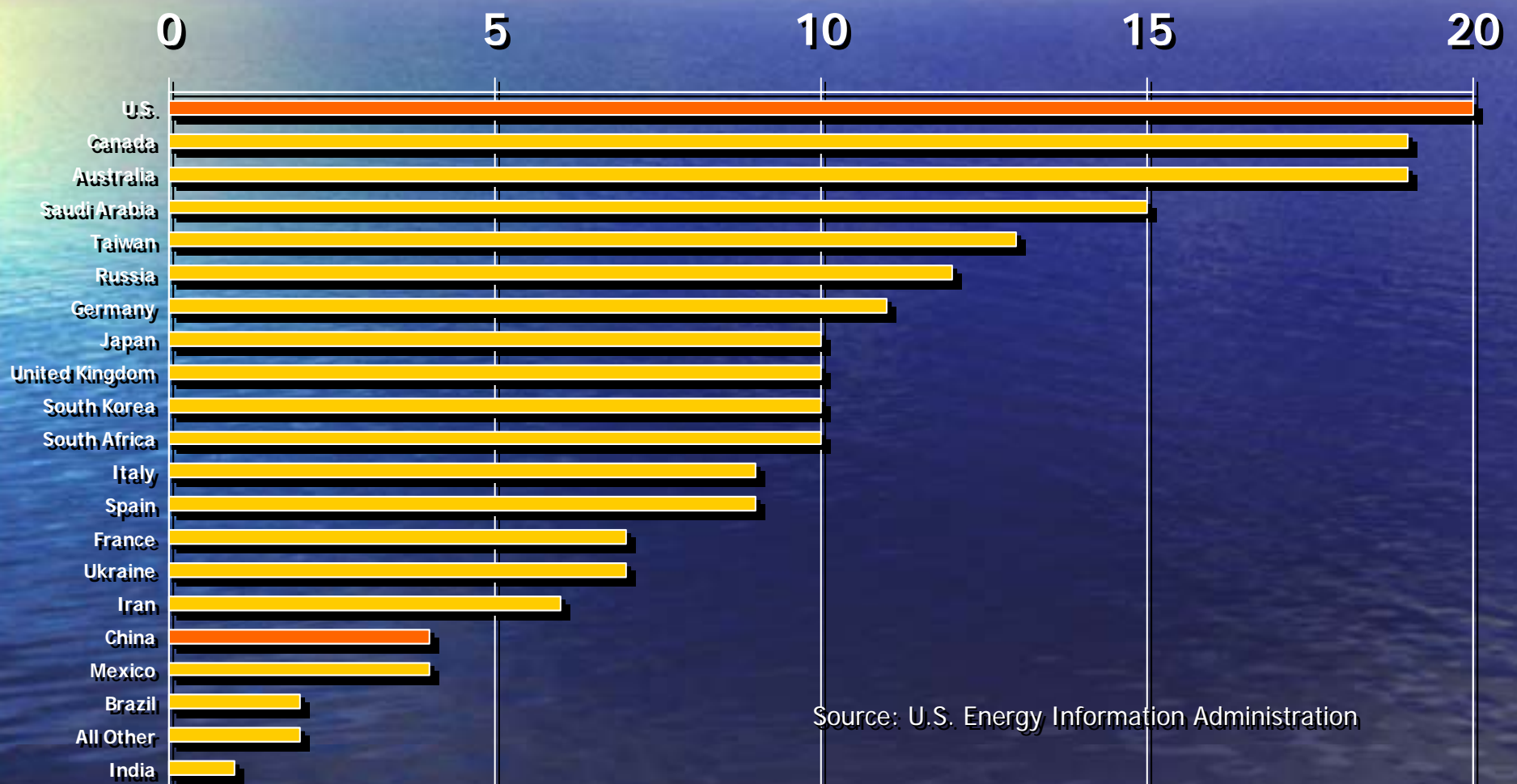
Metric Tons/Year



Source: U.S. Energy Information Administration

Contributors: CO₂ Emissions per Capita

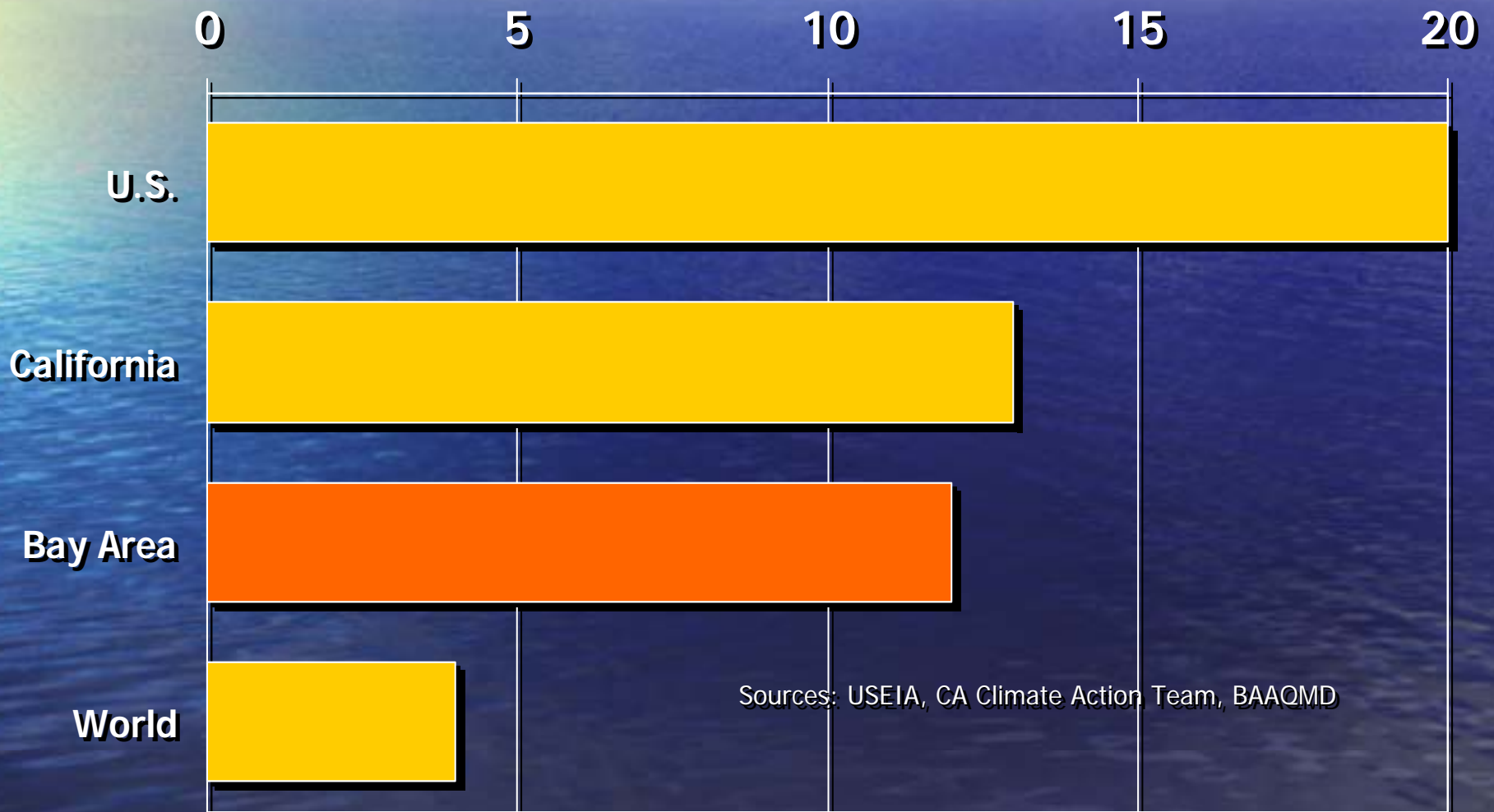
Metric Tons/Year



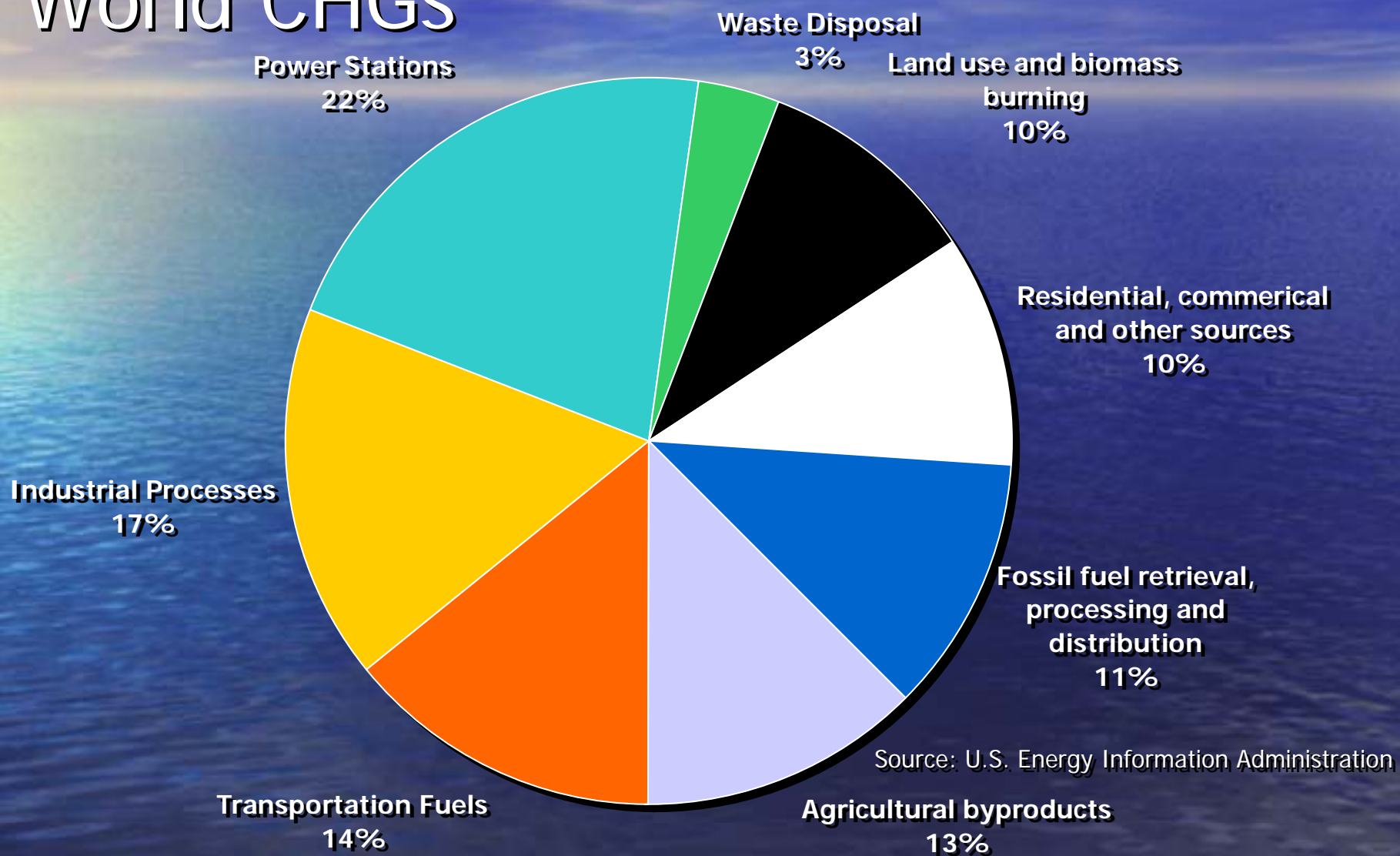
Source: U.S. Energy Information Administration

Contributors: CO₂ Emissions per Capita

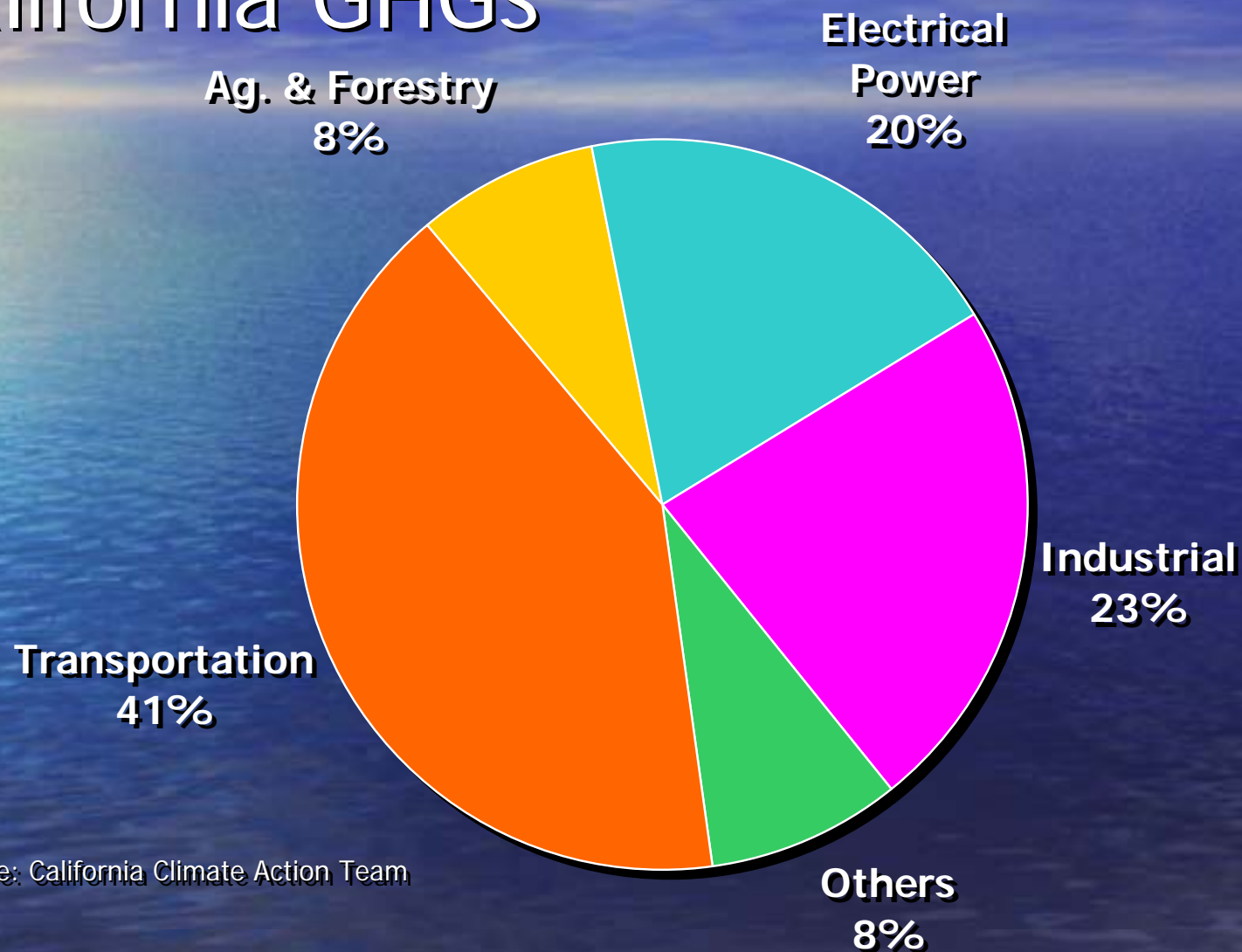
Metric Tons/Year



Contributors: World CHGs

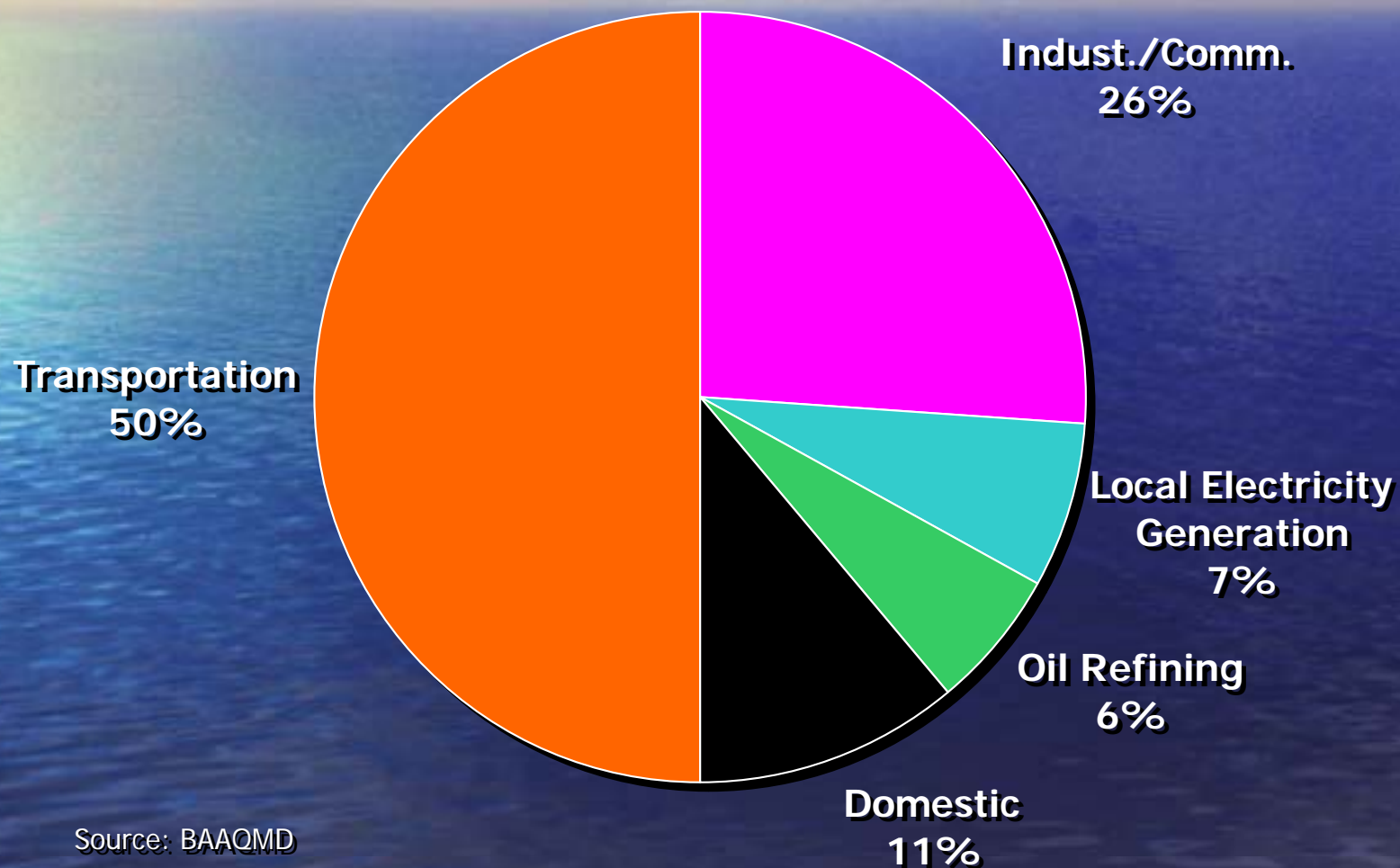


Contributors: California GHGs



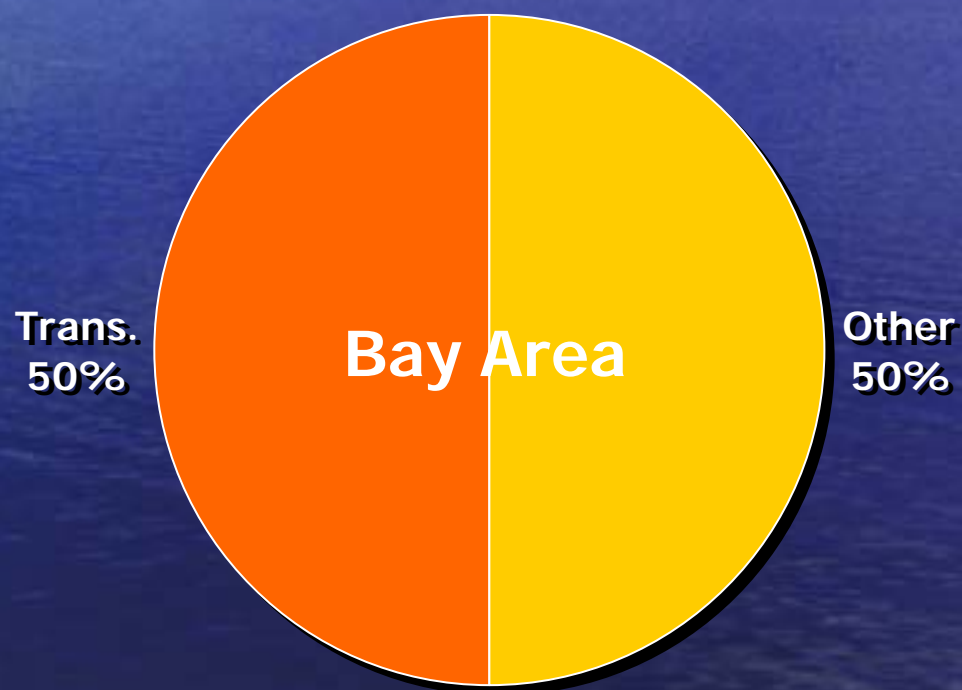
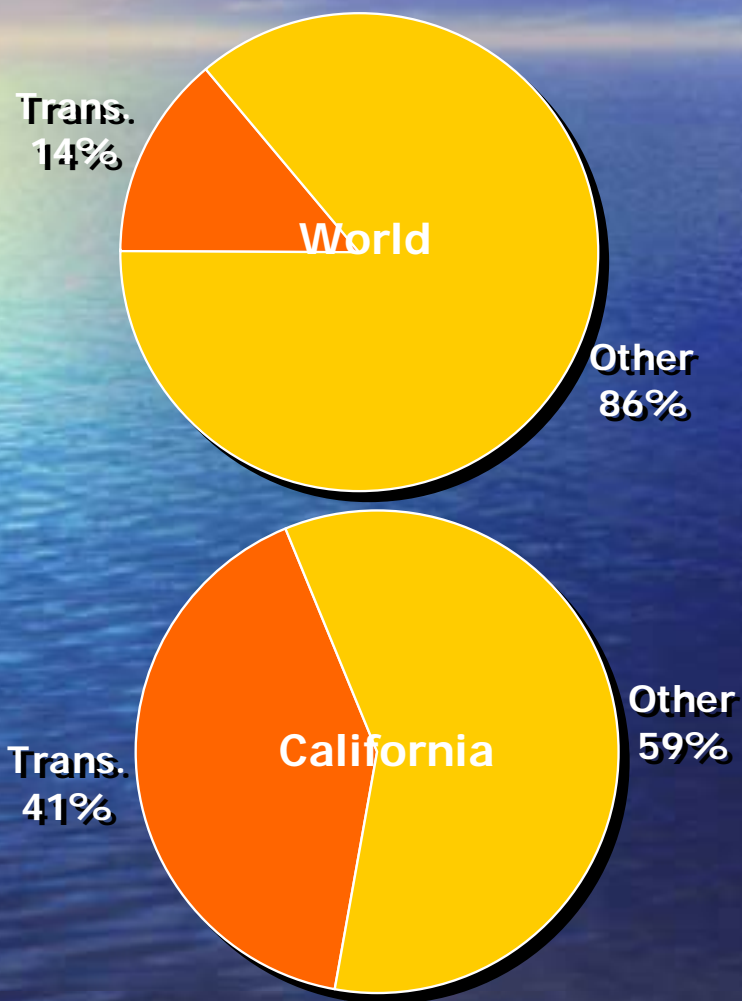
Source: California Climate Action Team

Contributors: Bay Area GHGs



Source: BAAQMD

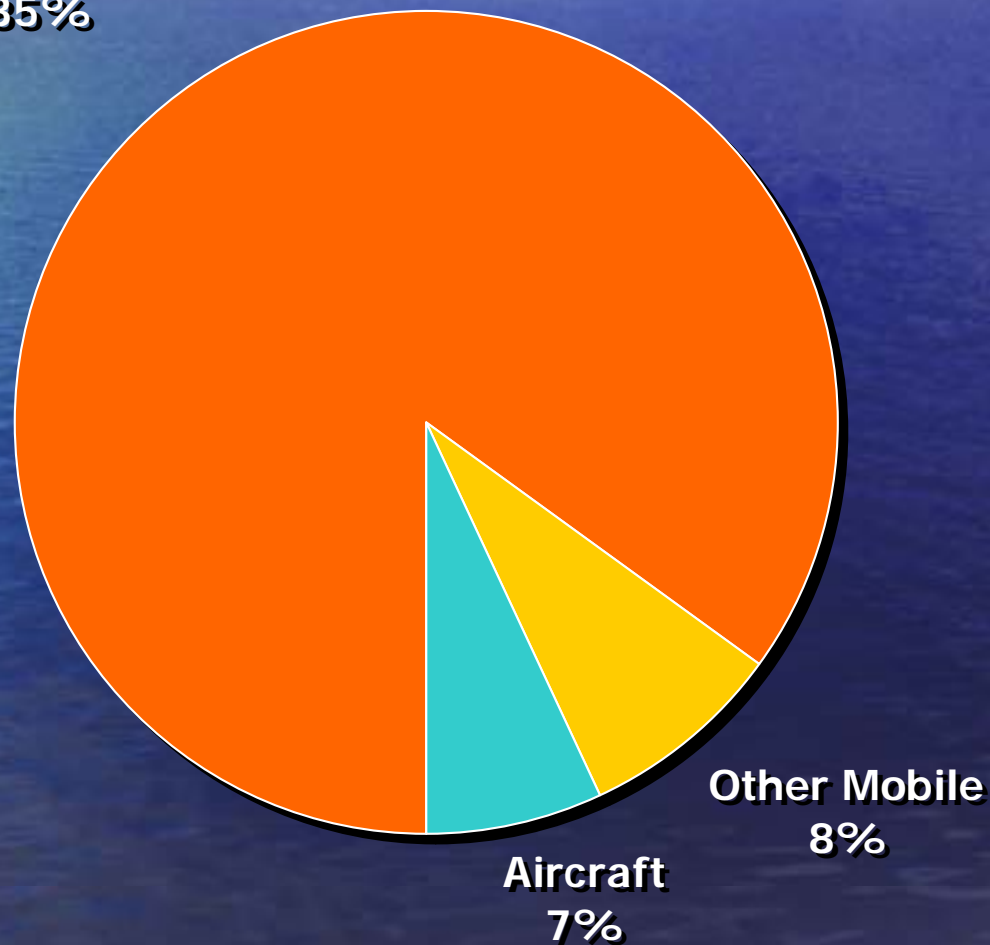
Contributors: GHGs Compared



Sources: USEIA, CA Climate Action Team, BAAQMD

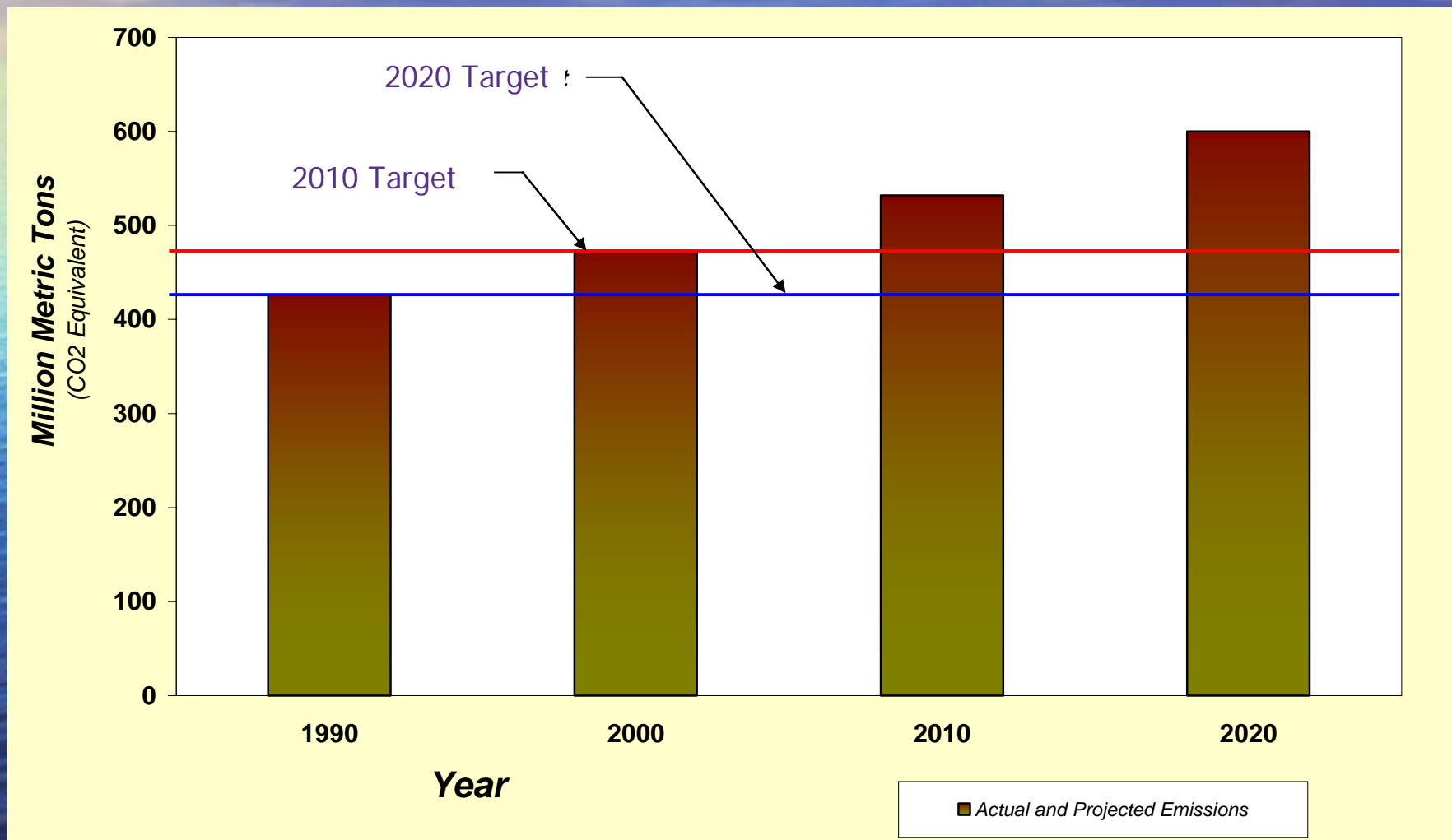
Contributors: Bay Area Transportation GHGs

On Road Vehicles
85%



Source: BAAQMD

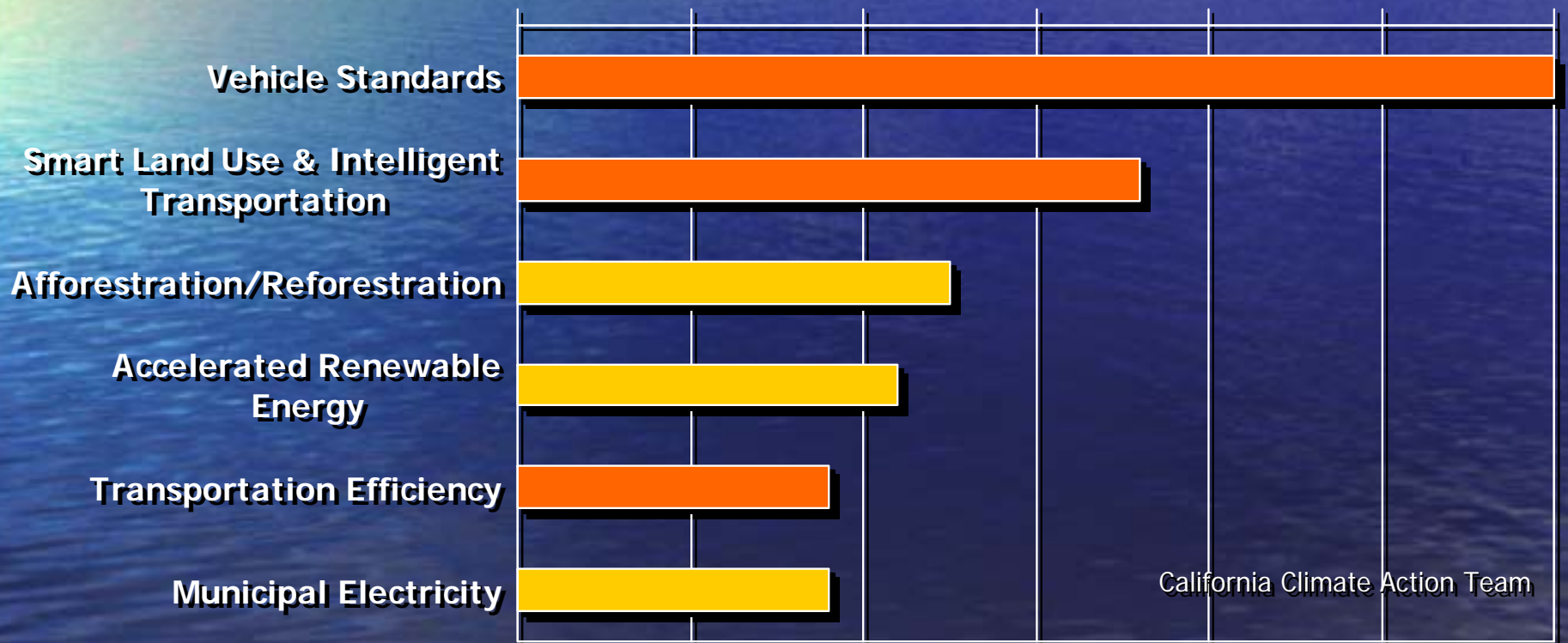
State Targets: 2010 and 2020



Strategies: The State's Initial Top Six

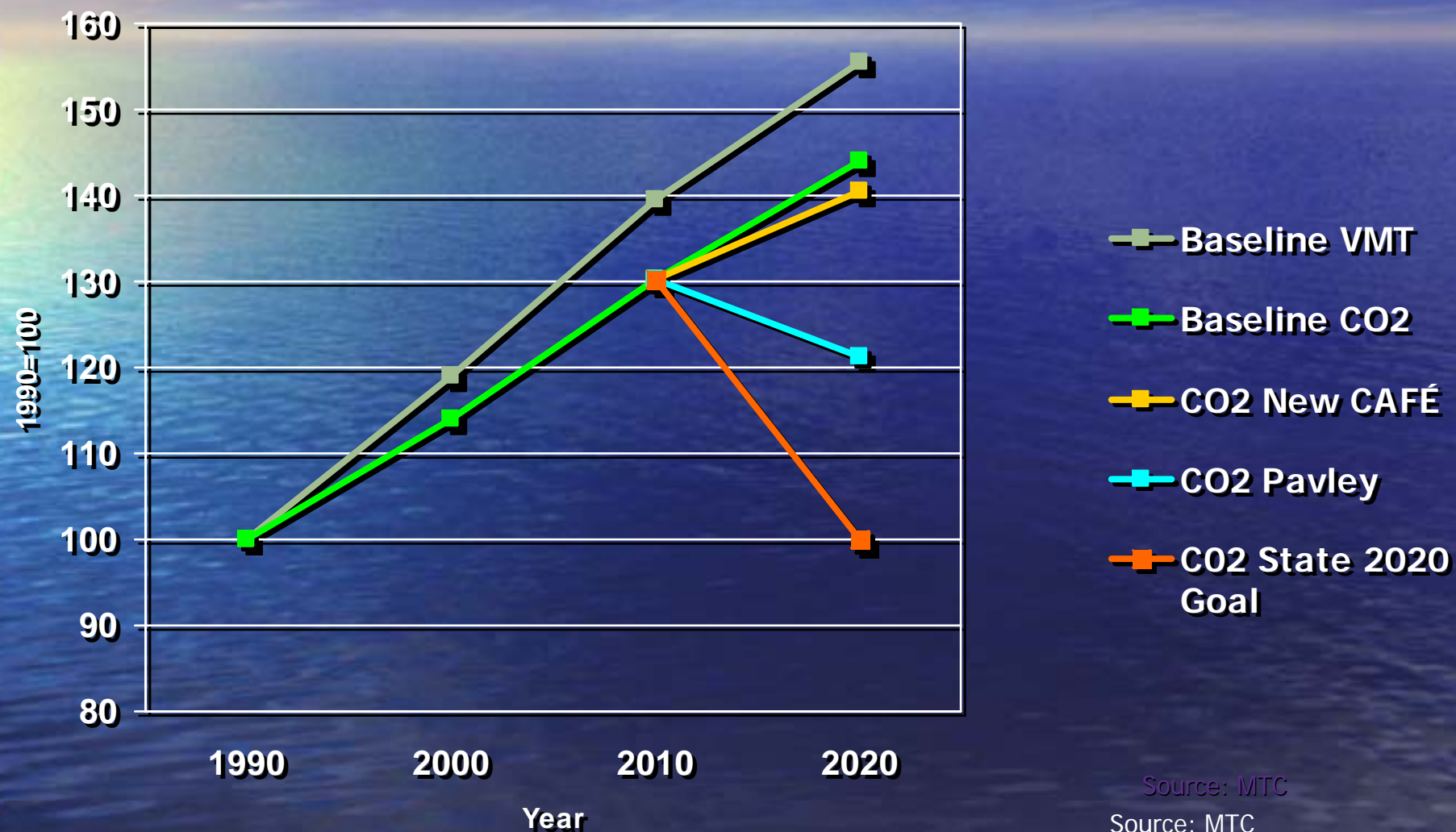
GHG Reduction (Millions of Metric Tons/Year)

0 5 10 15 20 25 30



California Climate Action Team

Strategies: Beyond Emission Standards



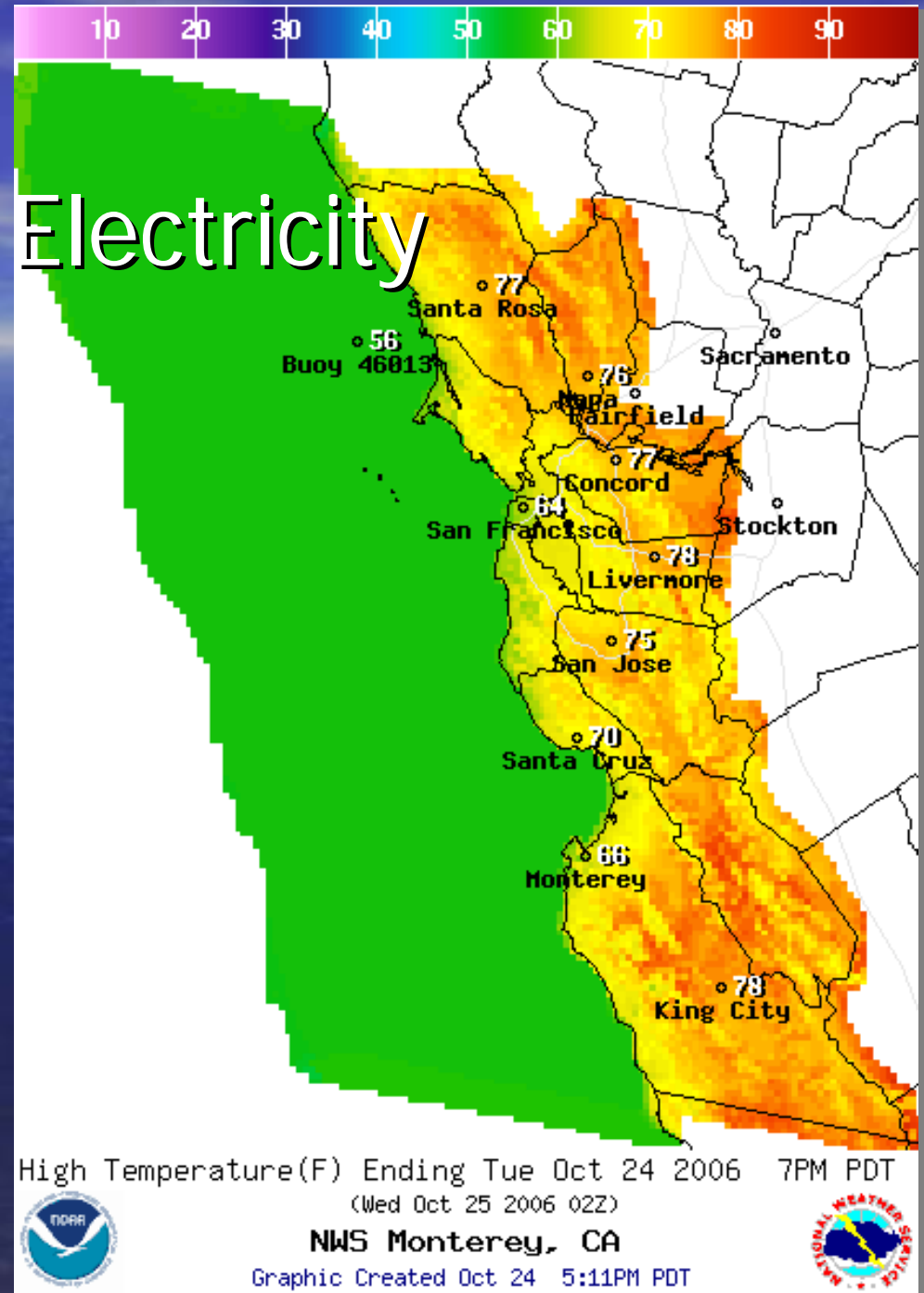
Strategies:

Smart Growth & Transportation

- Highly beneficial, and necessary
- But not sufficient—at least in the short term
- 1% annual growth
- In any year, 99% of development is a given
- Big difference in the long term
- But we will need more to meet 2020 target

Strategies: Smart Growth & Electricity

- Temperature gradient: as much as a degree per mile
- Synergy: reduced energy for cooling + reduced energy for transportation



Strategies: Real Innovation Required

- Targets are aggressive
- No silver bullet
- Will require multiple changes, some fundamental
- Business as usual will not be good enough
- Some strategies will be relatively painless
- Many will be difficult, costly, and contentious
- Either way, it will be a very different world
- Some impacts are inevitable
- It will be tough but doable

Strategies: JPC Approach

- Complete by May 18, 2007
- Concentrate on regional solutions
 - ABAG, BAAQMD, ICCLEI and others are pursuing local actions
- Consider both preventative and adaptive actions
- Do not limit actions to present authorities
- Involve BCDC
- Involve the public
- Inventory first...evaluate second

Strategies: Inventory and Evaluation

[illegible]

Key Messages

- Climate change is a serious problem globally and locally
- Our actions will affect how much the climate ultimately changes
- The Bay Area has been a leader and will continue to be a leader in climate protection
- Working together, the Bay Area will be a model for California, the nation and the world.